AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

- 1. (Currently Amended) An image reading apparatus, comprising:
 - a light source adapted to illuminate a document;
- a plurality of image sensing elements adapted to output electrical signals in accordance with an input light quantity;
 - a first reference member;
 - a second reference member;

a memory adapted to store a predetermined time since said light source is turned on until a maximum of electrical signals output from said plurality of image sensing elements at the time said light source is turned on changes a predetermined rate;

a timer adapted to measure a time since said light source is turned on; and a controller adapted to determine whether the time measured by said timer reaches [[a]] the predetermined time that is until an image signal value of the image sensing element that outputs a maximum signal value changes to a predetermined rate since said light source is turned on, in a case that the predetermined time has not elapsed, acquiring acquire shading correction data by a first method using said first reference member illuminated by said light source, and in a case that the predetermined time has elapsed, acquiring acquire shading correction data by a second method using said second reference member illuminated by said light source.

- 2. (Previously Presented) The apparatus according to claim 1, wherein in the first method, a coefficient for uniformly changing level of the shading correction data is generated on the basis of data obtained by scanning said first reference member by said image sensing elements, and in the second method, shading correction data of each pixel in a main scanning direction is generated by scanning said second reference member by said image sensing elements.
- 3. (Previously Presented) The apparatus according to claim 1, further comprising:

a correction unit which uses the shading correction data to perform shading correction on the electrical signals output from said image sensing elements.

- 4. (Original) The apparatus according to claim 1, wherein said first and second reference members comprise white plates.
- 5. (Original) The apparatus according to claim 4, wherein said first reference member is set at an end portion of a main scanning direction at a predetermined position of a subscanning direction, and said second reference member is set in the main scanning direction at a predetermined position in the subscanning direction.
- 6. (Previously Presented) The apparatus according to claim 1, wherein the determination by said controller is performed before each document sheet is read.

- 7. (Previously Presented) The apparatus according to claim 6, further comprising:
- a document feeder capable of successively supplying a plurality of document sheets,

wherein said controller performs the determination in a case that said document feeder supplies each document sheet to a predetermined position.

- 8. (Previously Presented) The apparatus according to claim 1, wherein in a case that a first document sheet is to be read after said light source is turned on, said controller acquires shading correction data using said second reference member before start of read of the document sheet.
- 9. (Previously Presented) The apparatus according to claim 8, wherein in a case that a first document sheet is to be read after said light source is turned on, and the predetermined time has not elapsed, said controller skips acquisition of shading correction data using said first reference member.

10. (Canceled)

11. (Currently Amended) A control apparatus for an image reading unit having a light source adapted to illuminate a document, a plurality of image sensing elements adapted to output electrical signals in accordance with an input light

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quantity, a first reference member, and a second reference member, comprising:

a memory adapted to store a predetermined time since said light source is turned on until a maximum of electrical signals output from said plurality of image sensing elements at the time said light source is turned on changes a predetermined rate;

a timer adapted to measure a time since the light source is turned on; and a controller adapted to determine whether the time measured by said timer reaches [[a]] the predetermined time that is until an image signal value of the image sensing element that outputs a maximum signal value changes to a predetermined rate since said light source is turned on, in a case that the predetermined time has not elapsed, acquiring acquire shading correction data by a first method using the first reference member illuminated by said light source, and in a case that the predetermined time has elapsed, acquiring acquire shading correction data by a second method using the second reference member illuminated by said light source.

12. (Currently Amended) A hybrid apparatus comprising:

- a light source adapted to illuminate a document;
- a plurality of image sensing elements adapted to output electrical signals in accordance with an input light quantity;
 - a first reference member;
 - a second reference member;
- a memory adapted to store a predetermined time since said light source is turned on until a maximum of electrical signals output from said plurality of image

sensing elements at the time said light source is turned on changes a predetermined rate;

a timer adapted to measure a time since said light source is turned on;
a controller adapted to determine whether the time measured by said timer
reaches [[a]] the predetermined time that is until an image signal value of the image
sensing element that outputs a maximum signal value changes to a predetermined
rate since said light source is turned on, in a case that the predetermined time has not
elapsed, acquiring acquire shading correction data by a first method using said first
reference member illuminated by said light source, and in a case that the
predetermined time has elapsed, acquiring acquire shading correction data by a

a correction unit adapted to correct the electrical signals output from said image sensing elements, and to output an image signal; and

second method using said second reference member illuminated by said light source;

a print unit adapted to print an image of the document on a print medium on the basis of the image signal corrected by said correction unit, wherein said correction unit performs shading correction using at least the shading correction data.

13. (Currently Amended) The apparatus according to claim 12, further comprising:

an output unit adapted to output the electrical image signals corrected by said correction unit to an external device via a communication line; and

an input unit adapted to input an image signal from the external device via the communication line,

wherein said print unit prints an image on a print medium on the basis of the image signal input via said input unit

- 14. (Currently Amended) A facsimile apparatus, comprising:
 - a light source adapted to illuminate a document;
- a plurality of image sensing elements adapted to output electrical signals in accordance with an input light quantity;
 - a first reference member;
 - a second reference member;

a memory adapted to store a predetermined time since said light source is turned on until a maximum of electrical signals output from said plurality of image sensing elements at the time said light source is turned on changes a predetermined rate;

a timer adapted to measure a time since said light source is turned on;

a controller adapted to determine whether the time measured by said timer reaches [[a]] the predetermined time that is until an image signal value of the image sensing element that outputs a maximum signal value changes to a predetermined rate since said light source is turned on, in a case that the predetermined time has not elapsed, acquiring acquire shading correction data by a first method using said first reference member illuminated by said light source, and in a case that the predetermined time has elapsed, acquiring acquire shading correction data by a

correction data.

second method using said second reference member illuminated by said light source;

a correction unit adapted to correct the electrical signals output from said image sensing elements, and to output an image signal;

an output unit adapted to output the electrical signals corrected by said correction unit to an external device via a communication line;

an input unit adapted to input an image signal from the external device via the communication line; and

a print unit adapted to print an image on a print medium on the basis of the image signal input via said input unit,
wherein said correction unit performs shading correction using at least the shading

15. (Currently Amended) A control method for an image reading unit having a light source adapted to illuminate a document, a plurality of image sensing elements adapted to output electrical signals in accordance with an input light quantity, a first reference member, and a second reference member, comprising:

storing a predetermined time since said light source is turned on until a

maximum of electrical signals output from said plurality of image sensing elements

at the time said light source is turned on changes a predetermined rate;

measuring a time since the light source is turned on;

that is until an image signal value of the image sensing element that outputs a maximum signal value changes to a predetermined rate since said light source is turned on;

acquiring first shading correction data using the first reference member illuminated by said light source in a case that the predetermined time has not elapsed; and

acquiring second shading correction data using the second reference member illuminated by said light source in a case that the predetermined time has elapsed.

16. (Previously Presented) The method according to claim 15, wherein the first shading correction data is acquired by generating a coefficient for uniformly changing level of the shading correction data on the basis of data obtained by scanning the first reference member by the image sensing elements, and the second shading correction data is acquired by generating shading correction data of each pixel in a main scanning direction by scanning the second reference member by the image sensing elements.

17. (Previously Presented) The method according to claim 15, further comprising:

performing shading correction on the electrical signals output from the image sensing elements by using the first shading correction data or the second shading correction data.

- 18. (Original) The method according to claim 15, wherein the first and second reference members comprise white plates.
- 19. (Original) The method according to claim 18, wherein the first reference member is set at an end portion of a main scanning direction at a predetermined position of a subscanning direction of a document, and the second reference member is set in the main scanning direction at a predetermined position in the subscanning direction.
- 20. (Previously Presented) The method according to claim 15, wherein said determination and said acquisition of the first shading correction data or the second shading correction data are performed before each document sheet is read.
- 21. (Previously Presented) The method according to claim 20, wherein the image reading unit further comprises a document feeder capable of successively supplying a plurality of document sheets, and said determination and said acquisition of the first shading correction data or the second shading correction data are performed in a case that the document feeder supplies each document sheet to a predetermined position.
- 22. (Currently Amended) The method according to claim 15, further comprising determining whether a document sheet is a first document sheet after the

light source is turned on,

wherein in a case that the document sheet is determined to be the first document sheet, said acquisition step of the second shading correction data is executed before start of read of the document sheet regardless of a determination result of determining whether the measured time reaches the predetermined time.

23. (Currently Amended) The method according to claim 22, wherein in a case that the document sheet is determined to be the first document sheet, said acquisition of the first shading correction data is skipped regardless of the determination result of determining whether the measured time reaches the predetermined time.

24. (Canceled)

25. (Currently Amended) A computer program product comprising a computer usable medium having computer readable program code means embodied in said medium for a control method for an image reading unit having a light source adapted to illuminate a document, a plurality of image sensing elements adapted to output electrical signals in accordance with an input light quantity, a first reference member, and a second reference member, said product including:

first computer readable program code means storing a predetermined time
since said light source is turned on until a maximum of electrical signals output from
said plurality of image sensing elements at the time said light source is turned on
changes a predetermined rate;

[[first]] second computer readable program code means for measuring a time since the light source is turned on;

[[second]] third computer readable program code means for determining whether the measured time reaches [[a]] the predetermined time that is until an image signal value of the image sensing element that outputs a maximum signal value changes to a predetermined rate since said light source is turned on;

[[third]] <u>fourth</u> computer readable program code means for acquiring shading correction data using the first reference member illuminated by said light source in a case that the predetermined time has not elapsed; and

[[fourth]] <u>fifth</u> computer readable program code means for acquiring shading correction data using the second reference member illuminated by said light source in a case that the predetermined time has elapsed.